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## FIGURE 1

TRYYLGAVELSW,	RYYLGAVELSWD,	YYLGAVELSWDYM,
GAVELSWDYMQSD,	VELSWDYMQSDLG,	WDYMQSDLGELPV,
DYMQSDLGELPV,	SDLGELPVNDARFP,	LPVDARFPPRVPK,
ARFPFRPKSPPF,	PRVPKSPPFNTSV,	KSFPFNTSVVYKK,
FPPNTSVVYKKTL,	TSVYVKKTLFVEF,	VVYKKTLFVEFTD,
KTLFVEFTDHLFN,	TLFVEFTDHLFN,	VEFTDHLFNIAKP,
EFTDHLFNIAKPR,	DHLFNIAKPRPPW,	FNIAKPRPPWMGL,
PPWMGLLGPTIQA,	PWMGLLGPTIQAЕ,	GLLGPTIQAEVYD,
LLGPTIQAEVYDT,	PTIQAEVYDTVVI,	EVYDTVVITLKN,
VYDTVVITLKNMA,	DTVVITLKNMASH,	VVITLKNMASHPV,
ITLKNMASHPVS,	TLKNMASHPVS,	SHPVSLSHAGVSY,
HPVSLHAVGVSYW,	PVSLHAVGVSYW,	HAGVSYWKASEG,
VGVSYWKASEGAE,	VSYWKASEGAEYD,	EGAEYDDQTSQRE,
AEYDDQTSQREKE,	QREKEDDKVFPGG,	KVFPFGGSHTYVWQ,
GSHTYVWQVLKEN,	HTYVWQVLKENGP,	YVWQVLKENGPM,
WQVLKENGPMASD,	QVLKENGPMASDP,	GPMASDPLCLTYS,
DPLCLTYSYLSHV,	LCLTYSYLSHV,	YSYLSHVDLVKDL,
SYLSHVDLVKDLN,	SHVDLVKDLNSGL,	DLVKDLNSGLIGA,
KDLNSGLIGALLV,	DLNSGLIGALLV,	SGLIGALLVCREG,
GLIGALLVCREGS,	IGALLVCREGSLA,	ALLVCREGSLAKE,
LLVCREGSLAKEK,	GSLAKEKTQTLHK,	TLHKFILLFAVFD,
HKFILLFAVFDEG,	KFILLFAVFDEGK,	ILLFAVFDEGKSW,
LLFAVFDEGKSWH,	FAVFDEGKSWHSE,	KSWHSETKNSLMQ,
NSLMQDRDAASAR,	SLMQDRDAASARA,	RAWFKMHTVNGYV,
PKMHTVNGYVNRS,	HTVNGYVNRSLPG,	GYVNRSLPGLIGC,
RSLPGLIGCHRKS,	PGLIGCHRKSVWY,	GLIGCHRKSVWYH,
SVYWHVIGMGTTP,	VYWHVIGMGTTP,	KSVVWHVIGMGT,
IGMGTTPEVHSIE,	GTTPEVHSIFLEG,	HVIGMGTTPEVHS,
SIFLEIGHTFLVRN,	IFLEIGHTFLVRN,	HSIFLEIGHTFLVR,
TFLVRNHRQASLE,	FLVRNHRQASLEI,	HTFLVRNHRQASL,
QASLEISPITFLT,	ASLEISPITFLT,	RQASLEISPITFL,
SPITFLTAQTLLM,	ITFLTAQTLLMDL,	ISPITFLTAQTLL,
TLLMDLGQFLFLFC,	LLMDLGQFLFLFC,	QTLLMDLGQFLLF,
GQFLLFCHISSHQ,	QFLLFCHISSHQH,	DLGQFLFLFCIHS,
CHISSHQHDGMEA,	SSHQHDGMEAIVK,	LLFCISSHQHDG,
AYVKVDSCPEEPQ,	VKVDSCPEEPQLR,	DGMEAYVKVDSCP,
LRMKNNEEADYD,	NEEAEDYDDDLTD,	EAYVKVDSCPEEP,
DDLTDSEMDVVRF,	SEMDVVRFDDDNS,	PQLRMKNNEEAD,
VVRFDDDNSPSFI,	VRFDDDNSPSFIQ,	DDDLTDSEMDVVR,
SFIQIRSVAKKHP,	IQIRSVAKKHPKT,	DVVRFDDDNSPSF,
TWVHYIAAEEEDW,	VHYIAAEEEDWDY,	PSFIQIRSVAKKH,
WDYAPLVLAPDDR,	APLVLAPDDRSYK,	KTWVHYIAAEEED,
V LAPDDR SYK SQY,	RSYKSQYLNNGPQ,	EDWDYAPLVLAPD,
QYLNNNGPQRIGRK,	NGPQRIGRKYKKV,	LVLAPDDRSYKSQ,
KKVRFMAYTDET,	KVRFMAYTDETFK,	SQYLNNGPQRIGR,
F MAYTDET FKTRE,	MAYTDET FKTRE,	RKYKKVRFMAYTD,
FKTREAIQHESGI,	TREAIQHESGILG,	RFMAYTDETFKTR,
SGILGPILLYGEVG,	EAIQHESGILG,	ETFKTREAIQHES,
LLYGEVGDTLLII,	GILGPILLYGEVGD,	QHESGILGPILLYG,
LLIIFKNQASRPY,	GEVGDTLLIIIFKN,	GPLLYGEVGDTLL,
RPYNIYPHGITDV,	IIIFKNQASRPYN,	TLLIIFKNQASRP,
HGITDVRPLYSRR,	NIYPHGITDVRP,	SRPYNIYPHGITD,
RRLPKGVKHLKDF,	TDVRPLYSRRPK,	PHGITDVRPLYSR,
KDFPILPGEIFKY,	KGVKHLKDFPILP,	PLYSRRLPKGVKH,
EIFKYKWTVTVED,	FPILPGEIFKYKW,	LKDFPILPGEIFK,
VTVEDGPTKSDPR,	FKYKWTVTVEDGP,	GEIFKYKWTVTVE,
	GPTKSDPRCLTRY,	WTVTVEDGPTKSD,
		RCLTRYSSFVN,

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Figure 1 (continued)

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TRYSSFVNMERD,	RYYSSFVNMERDL,	SSFVNMERDLASG,	SFVNMERDLASGL,
VNMERDLASGLIG,	NMERDLASGLIGP,	RDLASGLIGPLLI,	DLASGLIGPLLC,
LASGLIGPLLICY,	SGLIGPLLICYKE,	GLIGPLLICYKES,	GPLLICYKESVDQ,
PLLICYKESVDQR,	LLICYKESVDQRG,	ICYKESVDQRGNQ,	CYKESVDQRGNQI,
KESVDQRGNQIMS,	ESVDQRGNQIMSD,	NQIMSDKRNVILF,	QIMSDKRNVILFS,
RNVILFSVFDENR,	NVILFSVFDENRS,	VILFSVFDENRSW,	ILFSVFDENRSWY,
LFSVFDENRSWYL,	FSVFDENRSWYL,	SVFDENRSWYLTE,	RSWYLTENIQRFL,
SWYLTENIQRFLP,	WYLTENIQRFLPN,	ENIQRFLPNPAGV,	QRFLPNPAGVQLE,
RFLPNPAGVQLED,	AGVQLEDPEFQAS,	GVQLEDPEFQASN,	VQLEDPEFOASNI,
QLEDPEFQASNIM,	PEFQASNIMHSIN,	SNIMHSINGYVFD,	NIMHSINGYVFDs,
HSINGYVFDSQL,	INGYVFDSQLQSV,	NGYVFDSQLQSVC,	GYVFDSQLQSVCL,
YVFDSQLQSVCLH,	VFDSQSQLQSVCLHE,	DSLQLSVCLHEVA,	LQLSVCLHEVAYW,
LSVCLHEVAYWI,	VCLHEVAYWI,	HEVAYWI	VAYWI
AYWI	LSIGAQTDF,	YI	YI
ILSIGAQTDFLSV,	LSIGAQTDFLSV,	IGAQTDFLSVFFS,	TDFLSVFFSGYTF,
DFLSVFSGYTFK,	LSVFFSGYTFKHK,	SVFFSGYTFKHKM,	VFFSGYTFKHKMV,
FSGYTFKHKMVYE,	SGYTFKHKMVYED,	YTFKHKMVYEDTL,	HKMVYEDTLTLFP,
KMVYEDTLTFP,	MVYEDTLTFPFS,	DTLTLFPFSGETV,	LTLFPFSGETVFM,
TLFPFSGETVFM,	FPFSGETVFMMSME,	SGETVFMMSMENPG,	ETVFMMSMENPGLW,
TVFMSMENPGLWI,	VFMMSMENPGLWIL,	MSMENPGLWILGC,	PGLWILGCHNSDF,
GLWILGCHNSDFR,	LWILGCHNSDFRN,	WILGCHNSDFRNRR,	GCHNSDFRNRRGMMT,
CHNSDFRNRRGMMT,	SDFRNRGMMTALLK,	RGMTALLKVSSCD,	TALLKVSSCDKNT,
ALLKVSSCDKNTG,	LKVSSCDKNTGDY,	GDYYEDSYEDISA,	DYYEDSYEDISAY,
EDSYEDSYISAYLLS,	DSYEDSYISAYLLSK,	EDISAYLLSKNNAA,	DISAYLLSKNNAAI,
ISAYLLSKNNAAIE,	SAYLLSKNNAAIEP,	AYLLSKNNAAIEPR,	YLLSKNNAAIEPRS,
SKNNAIEPRSFQS,	NAIEPRSFQSNSR,	RSFSQNSRHPSTR,	KQFNATTIPENDI,
TTIPENDIEKTDP,	NDIEKTDPWFAHR,	TDPWFAHRTPMPK,	DPWFAHRTPMPKI,
PWFHARTRPMPKIQ,	TPMPKIQNVSSSD,	PKIQNVSSSDLIM,	QNVSSSDLIMLLR,
NVSSSDLIMLLRQ,	SDLLMLLRQSPPTP,	DLLMLLRQSPPTPH,	LLMLLRQSPPTPHG,
LMLLRQSPPTPHGL,	MLLRQSPPTPHGLS,	HGLSLSDLQEAKEY,	GLSLSDLQEAKEYE,
LSLSDLQEAKEYET,	SDLQEAKEYETFSD,	AKYETFSDDPSPG,	ETFSDDPSPGAID,
PSPGAIDSNNSLS,	SPGAIDSNNSLSE,	GAIDSNNSLSEMT,	NSLSEMTHFRPQL,
SEMTHFRPQLHHS,	THFRPQLHHSGDM,	PQLHHSGDMVFTP,	HSGDMVFTPESGL,
GDMVFTPESGLQL,	DMVFTPESGLQLR,	MVFTPESGLQLRL,	SGLQLRLNEKLGT,
LQLRLNEKLGTAA,	LRLNEKLGTAAAT,	RLNEKLGTAAATE,	EKLGTAAATELKK,
KLGTTAATELKLL,	TAATELKLLDFKV,	TELKKLDFKVSSST,	ELKKLDFKVSSTS,
KKLDFKVSSSTSNN,	KLDFKVSSSTSNNL,	LDFKVSSSTSNNLII,	FKVSSSTSNNLIST,
TSNNLISTIPSDN,	NNLISTIPSDNLA,	NLISTIPSDNLAII,	STIPSDNLAAGTD,
SDNLAAGTDNTSS,	DNLAAGTDNTSSL,	LAAGTDNTSSLGP,	DNTSSLGPPSMPPV,
SSLGPPSMPVHYD,	PSMPVHYDSQLDT,	MPVHYDSQLDTTL,	PVHYDSQLDTTLF,
VHYDSQLDTTLFG,	HYDSQLDTTLFGK,	SQLDTTLFGKKSS,	TTLFGKKSSPLTE,
TLFGKKSSPLTES,	SPLTESGGPLSLS,	GPLSLSEENNDSK,	LSLSEENNDNSKLL,
SEENNDNSKLLESG,	NDSKLLESGLMNS,	SKLLESGLMNSQE,	KLLESGLMNSQES,
SGLMNSQESSWGK,	GLMNSQESSWGK,	LMNSQESSWGKVN,	SSWGKVNSSTESG,
SWGKVNSSTESGR,	KNVSSTESGRFLK,	GRLFKGKRAHGP,	RLFKGKRAHGPAL,
FKGKRAHGPALLT,	AHGPALLTKDNAL,	HGPALLTKDNALF,	PALLTKDNALFKV,
ALLTKDNALFKV,	DNALFKVSISLLK,	NALFKVSISLLKT,	ALFKVSISLLKTN,
FKVSISSLKTNKT,	KVSISSLKTNKTS,	VSISSLKTNKTSN,	SISLTKTNKTSNN,
ISLLKTNKTSNNNS,	SLLKTNKTSNNSA,	LLKTNKTSNNSAT,	KTSNNSATNRKTH,
NRKTHIDGPSLLI,	THIDGPSLLIENS,	DGPSLLIENSPSV,	GPSLLIENSPSVW,
PSLLIENSPSVWQ,	SLLIENSPSVWQN,	LLIENSPSVWQNI,	IENSPSVWQNIILE,
PSVWQNILESDE,	SVWQNILESDE,	QNILESDEFKKV,	NILESDTEFKKV,
DTEFKVTPLIHD,	TEFKVTPLIHD,	FKVTPPLIHDRLM,	KKVTPPLIHDRLM,
VTPLIHDRLMDK,	TPLIHDRLMDK,	PLIHDRLMDKNA,	IHDRLMDKNATA,
HDRMLMDKNATAL,	DRMLMDKNATALR,	RMLMDKNATALRL,	MLMDKNATALRLN,
DKNATALRLNHSMS,	NATALRLNHSMSN,	TALRLNHSMSNKT,	LRLNHSMSNKTTS,
NHMSNKTTSKKNM,	KNATALRLNHSMSN,	ALRLNHSMSNKTTS,	SKNMEMVQQKKEG,
KNMEMVQQKKEGP,	MEMVQQKKEGPPIP,	EMVQQKKEGPPIP,	EGPIPPDAQNPDM,
GPIPPDAQNPDM,	PDAQNPDMFFKM,	NPDMSFFKMLFLP,	PDMSSFFKMLFLP,
MSFFKMLFLPESA,	SFFKMLFLPESAR,	FFKMLFLPESARW,	FKMLFLPESARWI,
KMLFLPESARWIQ,	MLFLPESARWIQR,	LFLPESARWIQRT,	SARWIQRTHGKNS,
ARWIQRTHGKNSL,	RWIQRTHGKNSLN,	IQRTHGKNSLNQ,	NSLNSGQGPSPKQ,
PKQLVSLGPEKSV,	KQLVSLGPEKSVE,	QLVSLGPEKSVEG,	LVSLGPEKSVEGQ,
VSLGPEKSVEQON,	LGPEKSVEQNFL,	GPEKSVEQNFLSEKN,	KSVEQNFLSEKN,

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Figure 1 (continued)

SVEGQNFLSEKNK	GQNFLSEKNKVVV,	QNFLSEKNKVVVG,	NFLSEKNKVVVGK,
NKVVVGKGEFTKD,	KVVVGKGEFTKDV,	VVVGKGEFTKDVG,	KGEFTKDVGKEM,
GEFTKDVGKEMV,	KDVGKEMVFPSS,	VGLKEMVFPSSRN,	GLKEMVFPSSRNL,
LKEMVFPSSRNLF,	KEMVFPSSRNLF,	EMVFPPSRNLFLT,	MVFPPSRNLFLT,
SSRNLFLTNLDNL,	SRNLFLTLDNLH,	RNLFLTLDNLHE,	NLFLTLDNLHEN,
LFLTLDNLHENNTH,	LTNLDNLHENNTH,	TNLDNLHENNTHN,	NLDNLHENNTHNQ,
LDNLHENNTHNQE,	DNLHENNTHNQEK,	EKKIQEEIEKKET,	KKIQEEIEKKETL,
QEEIEKKETLIQE,	EEIEKKETLIQEN,	IEKKETLIQENVV,	KKETLIQENVVL,
ETLIQENVLPQI,	TLIQENVLPQI,	IQENVLPQIHTV,	ENVLPQIHTVTG,
NVLPQIHTVTGT,	VVLPQIHTVTGT,	LPQIHTVTGTKNF,	PQIHTVTGTKNFM,
IHTVTGTKNFMKN,	HTVTGTKNFMKNL,	KNFMKNLFLLSTR,	NFMKNLFLLSTRQ,
FMKNLFLLSTRQN,	MKNLFLLSTRQN,	KNLFLLSTRQNVE,	NLFLLSTRQNVEG,
LFLLSTRQNVEGS,	FLLSTRQNVEGSY,	RQNVEGSDGAYA,	QNVEGSDGAYAP,
EGSYDGAYAPVLQ,	GSYDGAYAPVLQD,	DGAYAPVQLQDFRS,	GAYAPVQLQDFRS,
YAPVQLQDFRSLND,	APVQLQDFRSLND,	PVLQDFRSLNDST,	LQDFRSLNDSTNR,
QDFRSLNDSTNRT,	DFRSLNDSTNRTK,	FRSLNDSTNRTKK,	RSLNDSTNRTKKH,
AHFSKKGEEENLE,	EENLEGNGNQTKQ,	ENLEGNGNQTKQI,	LEGNGNQTKQIVE,
EGLGNQTKQIVEK,	LGNQTKQIVEKYA,	KQIVEKYACTTRI,	QIVEKYACTTRIS,
EKYACTTRISPNT,	TTRISPNTSQQNF,	TRISPNTSQQNFV,	NTSQONFVTQRSK,
TSQQNFVTQRSKR,	QNFVTQRSKRAL,	QNFVTQRSKRALK,	NFVTQRSKRALQ,
QRSKRALQFRLP,	RALKQFRLPLEET,	KQFRLPLEETELE,	QFRLPLEETELEK,
FRLPLEETELEKR,	LPLEETELEKRII,	PLEETELEKRIIV,	LEETELEKRIIVD,
TELEKRIIVDDTS,	EKRIIVDDTSTQW,	KRIIVDDTSTQWS,	RIIVDDTSTQWSK,
IIVDDTSTQWSKN,	VDDTSTQWSKNMK,	TQWSKNMKHLP,	SKNMKHLTPSTLT,
KNMKHLTPSTLTQ,	KHLTPSTLTQIDY,	PSTLTQIDYNEKE,	STLTQIDYNEKEK,
LTQIDYNEKEKGAI,	TQIDYNEKEKGAI,	QIDYNEKEKGAI,	IDYNEKEKGAIQ,
EKEKGAIQSPLS,	GAITQSPLSDCLT,	SPLSDCLTRSHSI,	SDCLTRSHSIPQA,
DCLTRSHSIPQAN,	SHSIPQANRSPLP,	HSIPQANRSPLP,	RSPLPIAKVSSFP,
SPLPIAKVSSFPS,	PLPIAKVSSFPSI,	LPIAKVSSFPSI,	IAKVSSFPSIRPI,
AKVSSFPSIRPIY,	VSSFPSIRPIYLT,	SSFPSIRPIYLTR,	FPSIRPIYLTRVL,
PSIRPIYLTRVLF,	SIRPIYLTRVLFQ,	RPIYLTRVLFQDN,	PIYLTRVLFQDNS,
IYLTRVLFQDNSS,	LTRVLFQDNSSHL,	TRVLFQDNSSHL,	RVLFQDNSSHLPA,
VLFQDNSSHLPA,	QDNSSHLPAASYR,	NSSHLPAASYRK,	SSHLPAAASYRKD,
SHLPAASYRKKDS,	AASYRKKDSGVQE,	ASYRKKDSGVQES,	KKDSGVQESSHFL,
KDSGVQESSHFLQ,	DSGVQESSHFLQG,	SGVQESSHFLQGA,	VQESSHFLQGAKK,
SHFLQGAKNNLNS,	HFLQGAKNNLSL,	NNLSSLAILTLEM,	NLSLAILTLEMTRG,
LSLAILTLEMTRG,	LAILTLEMTRGQ,	AILTLEMTRGQRE,	LTLEMTRGQREVG,
TLEMTRGQREVG,	LEMTGDQREVGSL,	TGDQREVGSLGTS,	QREVGSLGTSATN,
REVGSLGTSATNS,	VGSLGTSATNSVT,	GSLGTSATNSVTY,	KNNLSSLAILTLEM,
NSVTKKVENTVL,	SVTKKVENTVL,	VTYKKVENTVLK,	KKVENTVLPKBDL,
NTVLPKDPDKTS,	PDLPKTSGKVELL,	SGKVELLPKVHIY,	GKVELLPKVHIYQ,
VELLPKVHIYQKD,	ELLPKVHIYQKDL,	LPKVHIYQKDLFP,	PKVHIYQKDLFPT,
VHIYQKDLFPTET,	HIYQKDLFPTETS,	KDLFPTETSNGSP,	DLFPTETSNGSPG,
PGHLDLVEGSLLQ,	GHLDLVEGSLLQG,	LDLVEGSLLQGTE,	DLVEGSLLQGTEG,
VEGSLLQGTEGAI,	EGSLLQGTEGAIK,	GSLLQGTEGAIK,	SLLQGTEGAIKWN,
GAIKWNEANRPGK,	AIKWNEANRPGKV,	IKWNEANREGKVP,	RPGKVPFLRVATE,
GKVPFLRVATESS,	KVPFLRVATESSA,	VPFLRVATESSAK,	PFLRVATESSAKT,
FLRVATESSAKTP,	LRVATESSAKTPS,	VATESSAKTPSKL,	SKLLDPLAWDNHY,
KLLDPLAWDNHYG,	LLDPLAWDNHYGT,	LDPLAWDNHYGTQ,	DPLAWDNHYGTQI,
PLAWDNHYGTQIP,	LAWDNHYGTQIPK,	DNYHTQIPKEEW,	NHYHTQIPKEEWK,
GTQIPKEEWSQE,	TQIPKEEWSQEK,	KEEWSQEKSPK,	EEWKSQEKSPKET,
KSQEKSPEKTAFK,	SQEKSPEKTAFKK,	KTAFKKKDTILSL,	QEKSPEKTAFKKK,
KSPEKTAFKKKDT,	SPEKTAFKKKDTI,	KTAFKKKDTILSL,	TAFKKKDTILSLN,
AFKKKDTILSLNA,	DTILSLNACESNH,	TILSLNACESNH,	ILSLNACESNHAI,
LSLNACESNHIA,	HAIAAINEGQNKP,	AIAAINEGQNKP,	IAAINEGQNKPFI,
AAINEGQNKPFI,	GQNKPFIIEVTWAK,	QNKPEIEVTWAKQ,	GQNKPFIIEVTWAK,
QNKPEIEVTWAKQ,	PEIEVTWAKQGRT,	EIEVTWAKQGRT,	IEVTWAKQGRT,
EVTWAKQGRT,	VTWAKQGRTLC,	TERLCSQNPPVLK,	ERLCSQNPPVLK,
NPPVLKRHQREIT,	PPVLKRHQREIT,	FVLKRHQREITR,	LKRHQREITR,
KRHQREITRTTLQ,	REITRTTLQSDQE,	TTLQSDQEEIDYD,	QEEIDYDDTISVE,
EEIDYDDTISVEM,	EIDYDDTISVEMK,	IDYDDTISVEMKK,	DTISVEMKEDFD,
TISVEMKEDFDI,	ISVEMKEDFDIY,	SVEMKEDFDIYD,	EMKEDFDIYDE,
EDFDIYDEDENQS,	DFDIYDEDENQSP,	FDIYDEDENQSPR,	DIYDEDENQSPRS,

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Figure 1 (continued)

YDEDENQSPRSFQ,	PRSFQKKTRHYFI,	RSFQKKTRHYFI,	TRHYFIAAVERLW,
RHYFIAAVERLWD,	HYFIAAVERLWDY,	YFIAAVERLWDY,	IAAVERLWDYGMS,
AAVERLWDYGMSS,	ERLWDYGMSSPH,	RLWDYGMSSPHV,	LWDYGMSSPHVL,
WDYGMSSSPHVL,	YGMSSSPHVLNR,	MSSSPHVLNRQAQ,	SSSPHVLNRQAQS,
PHVLRNRAQSGSV,	HVLRNRAQSGSVP,	RAQSGSPQFKKV,	QSGSPQFKVVF,
GSVPQFKVVFQE,	VPQFKVVFQEFT,	PQFKVVFQEFTD,	FKKVVVFQEFTDGS,
KKVVFQEFTDGSF,	KVVVFQEFTDGSFT,	VVFQEFTDGSFTQ,	VFQEFTDGSFTQP,
QEFTDGSFTQPLY,	GSFTQPLYRGELN,	QPLYRGELNEHLG,	PLYRGELNEHLGL,
GELNEHLGLGPY,	LNEHLGLGPYIR,	NEHLGLGPYIRA,	EHLGLGPYIRAE,
LGLLGPYIRAEVE,	GLLGPyIRAEVED,	LGPyIRAEVEDNI,	GPYIRAEVEDNIM,
PYIRAEVEDNIMV,	YIRAEVEDNIMVT,	RAEVEDNIMVTFR,	AEVEDNIMVTFRN,
EDNIMVTFRNQAS,	DNIMVTFRNQASR,	NIMVTFRNQASRP,	IMVTFRNQASRPy,
MVTFRNQASRPyS,	VTFRNQASRPySF,	ASRPYSPYSSLIS,	SRPYSFYSSLISY,
RPYSFYSSLISYE,	YSFYSSLISYEED,	SFYSSLISYEEDQ,	YSSLISYEEDQRO,
SSLISYEEDQRQG,	SLISYEEDQRQGA,	LISYEEDQRQGAE,	ISYEEDQRQGAEP,
KNFVKPNETKTYF,	NEFKPNETKTYFW,	KTYFWKVQHHMAP,	TYFWKVQHHMAPT,
YFWKVQHHMAPTK,	WKVQHHMAPTKDE,	HHMAPTKDEFDCK,	TKDEFDCKAWAYF,
DEFDCKAWAYFSD,	KAWAYFSDVDLEK,	WAYFSDVDLEKDV,	AYFSDVDLEKDvh,
SDVDLEKDVHSGL,	DVDLEKDVHSGLI,	VDLEKDVHSGLIG,	LEKDvhSGLIGPL,
KDVHSGLIGPLLV,	DVHSGLIGPLLVC,	VHSGLIGPLLVCN,	SGLIGPLLVCHTN,
GLIGPLLVCHTNT,	IGPLLVCHTNTLN,	GPLLVCHTNTLNp,	PLLVCHTNTLNPA,
LLVCHTNTLNPAH,	NTLNPAHGRQTVT,	AHGRQTVQEFAI,	RQTVQEFAFFT,
VTVQEFAFFTIF,	TVQEFAFFTIFD,	QEFAFFTIFDET,	FALFFTIFDETKS,
ALFFTIFDETKSW,	LFFTIFDETKSWY,	FTIFDETKSWYFT,	TIFDETKSWYFT,
KSWFTENMERNC,	SWYFTENMERNCR,	WYFTENMERNCRA,	FTENMERNCRAcP,
ENMERNCRAPCNI,	PCNIQMEDPTFKE,	CNIQMEDPTFKEN,	IQMEDPTFKENYR,
PTFKENYRFHAIN,	ENYRFHAINGYIM,	NYRFHAINGYIMD,	YRFHAINGYIMDT,
HAINGYIMDTLPG,	AINGYIMDTLPGI,	NGYIMDTLPGLVM,	GYIMDTLPGLVMa,
YIMDTLPGLVMAQ,	DTLPGLVMAQDQR,	TLPGLVMAQDQRi,	PGLVMAQDQRiRw,
GLVMAQDQRIRWY,	LVMAQDQRIRWYL,	MAQDQRIRWYLLs,	QRIRWYLLSMGSN,
IRWYLLSMGSNEN,	RWYLLSMGSNENi,	WYLLSMGSNENiH,	YLLSMGSNENiHS,
LSMGSNENiHSiH,	GSNENiHSiHFSG,	ENiHSiHFSGHVf,	HSiHFSGHVFTvR,
IHFSGHVFTVRKK,	HFSGHVFTVRKKE,	GHVFTVRKKEEYK,	HVFTVRKKEEYKm,
FTVRKKEEYKMAL,	VRKKEEYKMALYN,	KEEYKMALNLYP,	EEYKMALNLYPG,
YKMALNLYPGVF,	MALNLYPGVFET,	ALNLYPGVFETV,	YNLYPGVFETVEM,
NLYPGVFETVEML,	PGVFETVEMLPSK,	GVFETVEMLPSKA,	FETVEMLPSKAGI,
ETVEMLPSKAGiW,	VEMLPSKAGiWRV,	EMLPSKAGiWRVE,	MLPSKAGiWRVEC,
AGiWRVECLIGEH,	GIWRVECLIGEH,	WRVECLIGEHLHA,	ECLIGEHLHAGMS,
CLIGEHLHAGMST,	EHLHAGMSTLFLV,	HLHAGMSTLFLVY,	AGMSTLFLVYSNK,
STLFLVYSNKCQT,	TLFLVYSNKCQT,	LFLVYSNKCQTPL,	FLVYSNKCQTPLG,
LVYSNKCQTPLG,	YSNKCQTPLGMA,	OTPLGMASGHIRD,	TPLGMASGHIRDf,
LGMASGHIRDfQI,	SGHIRDfQITASG,	GHIRDfQITASGQ,	IRDFQITASGQYg,
RDFQITASGQYQ,	FQITASGQYQWA,	EHLHAGMSTLFLV,	HLHAGMSTLFLVY,
AGMSTLFLVYSNK,	STLFLVYSNKCQT,	TLFLVYSNKCQT,	LFLVYSNKCQTPL,
FLVYSNKCQTPLG,	LVYSNKCQTPLG,	YSNKCQTPLGMA,	OTPLGMASGHIRD,
TPLGMASGHIRDf,	LGMASGHIRDfQI,	SGHIRDfQITASG,	GHIRDfQITASGQ,
IRDFQITASGQYg,	RDFQITASGQYQ,	FQITASGQYQWA,	TASGQYQWAPKL,
SGQYQWAPKLAR,	GQYQWAPKLARL,	GQWAPKLARLHYS,	QWAPKLARLHYSG,
PKLARLHYSGSiN,	ARLHYSGSiNAWS,	LHYSGSiNAWSTK,	GSINAWSTKEPFS,
NAWSTKEPFsWIK,	EPFSWIKV DLLAP,	FSWIKV DLLAPMI,	SWIKV DLLAPMIi,
WIKV DLLAPMIiH,	IKV DLLAPMIiHG,	VDLLAPMIiHGIK,	DLLAPMIiHGIKt,
LLAPMIiHGIKTQ,	APMIiHGIKTQGA,	PMIIHGIKTQGAR,	MIIHGIKTQGARQ,
HGIKTQGARQKFS,	GIKTQGARQKFS,	IKTQGARQKFSs,	GARQKFSslyiSQ,
QKFSSLYiSQFII,	FSSLYiSQFIIIMY,	SSLYiSQFIIIMYs,	SLYiSQFIIIMYSL,
LYiSQFIIIMYSLD,	YiSQFIIIMYSLDg,	SQFIIIMYSLDGKk,	QFIIIMYSLDGKkW,
FIIMYSLDGKkWQ,	IIIMYSLDGKkWQT,	IMYSLDGKkWQTY,	YSLDGKkWQTYRG,
KKWQTYRGNSTGT,	QTYRGNSTGTLV,	GTLMVFFGNVDSS,	TLMVFFGNVDSSG,
LMVFFGNVDSSGi,	MVFFGNVDSSGiK,	VFFGNVDSSGiK,	FFGNVDSSGiKHN,
GNVDSSGiKHNiF,	VDSSGiKHNiFNP,	SGiKHNiFNpII,	GIKHNiFNpPiA,
IKHNiFNpPiIAR,	KHNiFNpPiIARY,	HNiFNpPiIARYi,	NiFNpPiIARYiR,
NpPiIARYiRLHP,	PPIARYiRLHPt,	PIIARYiRLHPtH,	ARYiRLHPtHysi,
RYiRLHPtHysiR,	IRLHPtHysiRt,	THYSiRSTLRMEL,	YSiRSTLRMELMG,
STLRMELMGCDLN,	TLRMELMGCDLN,	LRMELMGCDLNsc,	MELMGCDLNscSM,
ELMGCDLNscSMp,	LMGCDLNscSMpL,	CDLNscSMPLGME,	CSMPLGMEsKAiS,

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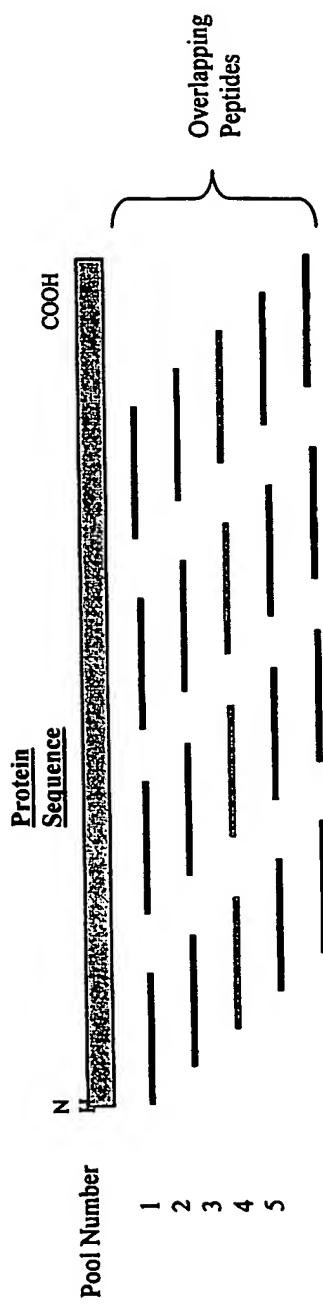
Figure 1 (continued)

SMPLGMESKAISD,	MPLGMESKAISDA,	LGMESKAISDAQI,	GMESKAISDAQIT,
SKAISDAQITASS,	KAISDAQITASSY,	AISDAQITASSYF,	DAQITASSYFTNM,
AQITASSYFTNMF,	TASSYFTNMFATW,	SSYFTNMFATWSP,	SYFTNMFATWSPS,
TNMFATWSPSKARL,	NMFATWSPSKARL,	FATWSPSKARLHL,	ATWSPSKARLHLQ,
PSKARLHLQGRSN,	ARLHLQGRSNAWR,	LHLQGRSNAWRPQ,	QGRSNAWRPQVNN,
NAWRPQVNNPKEW,	PQVNNPKEWLQVD,	NNPKEWLQVDFQK,	KEWLQVDFQKTMK,
EWLQVDFQKTMKV,	LQVDFQKTMKVGT,	VDFQKTMKVGT,	KTMKVGTQVTTQGV,
MKVTVTTQGVKS,	TGVTQGVKSLLT,	VTTQGVKSLLTSM,	QGVKSLLTSMYVK,
GVKSLLTSMYVK,	KSLLTSMYVKEFL,	SLLTSMYVKEFLI,	LTSMYVKEFLISS,
TSMYVKEFLISS,	SMYVKEFLISSQ,	MYVKEFLISSSQD,	YVKEFLISSSQDG,
KEFLISSSQDGHQ,	EFLISSSQDGHQW,	FLISSSQDGHQWT,	ISSSQDGHQWTLF,
SQDGHQWTLFFQN,	GHQWTLFFQNGKV,	HQWTLFFQNGKVK,	WTLFFQNGKVVF,
TLFFQNGKVVFQ,	LFFQNGKVVFQG,	NGKVKVFQGNQDS,	GKVKVFQGNQDSF,
VKVFQGNQDSFTP,	KVFQGNQDSFTP,	DSFTPVVSNDP,	TPVVNSLDPPLIT,
PVVNSLDPPLTR,	NSLDPPLTRYLR,	SLDPPLTRYLRI,	PPLTRYLRIHPQ,
PLLTRYLRIHPQS,	TRYLRIHPQS梧H,	RYLRIHPQS梧HQ,	LRIHPQS梧HQIA,
HPQS梧HQIALRM,	QSWH梧QIALRMEV,	SWH梧QIALRMEV,	WVH梧QIALRMEVLG,
HQIALRMEVLGCE,	IALRMEVLGCEAQ,	LRMEVLGCEAQDL,	

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FIGURE 2



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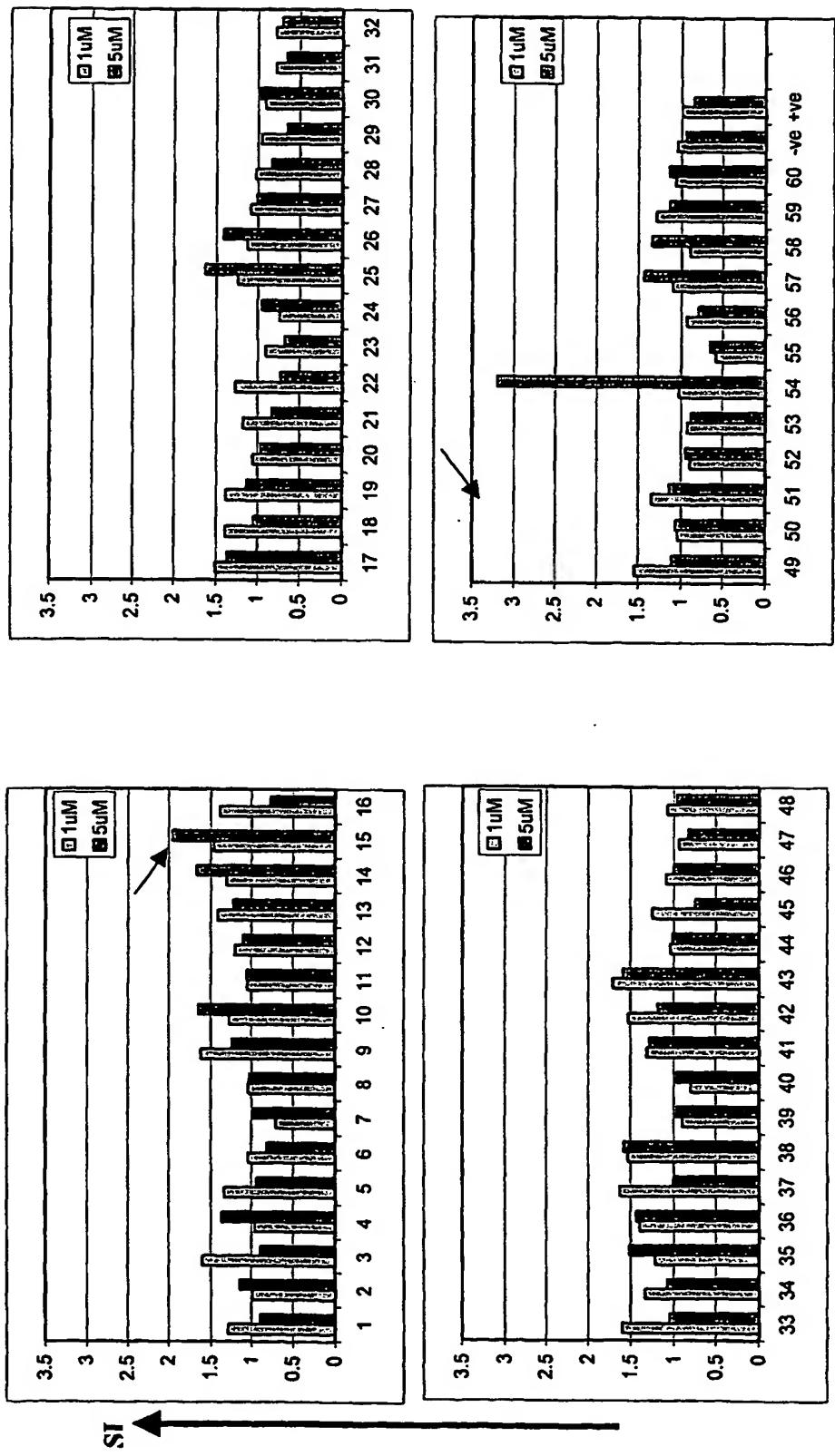


FIGURE 3

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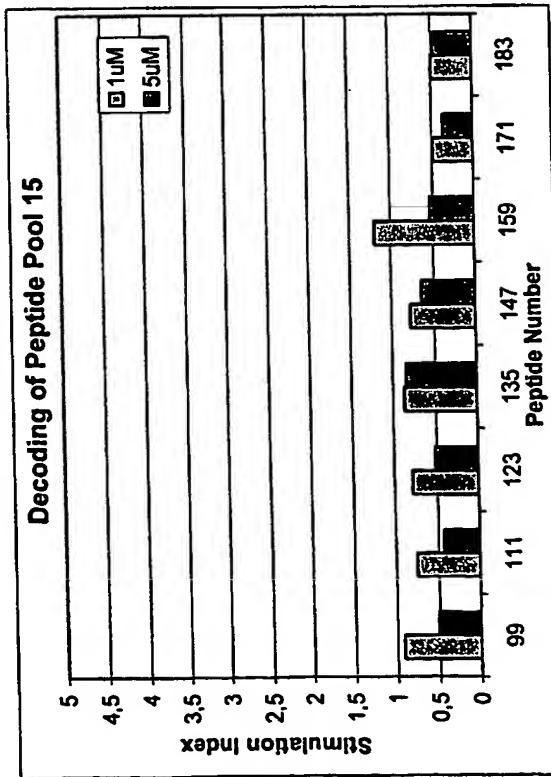
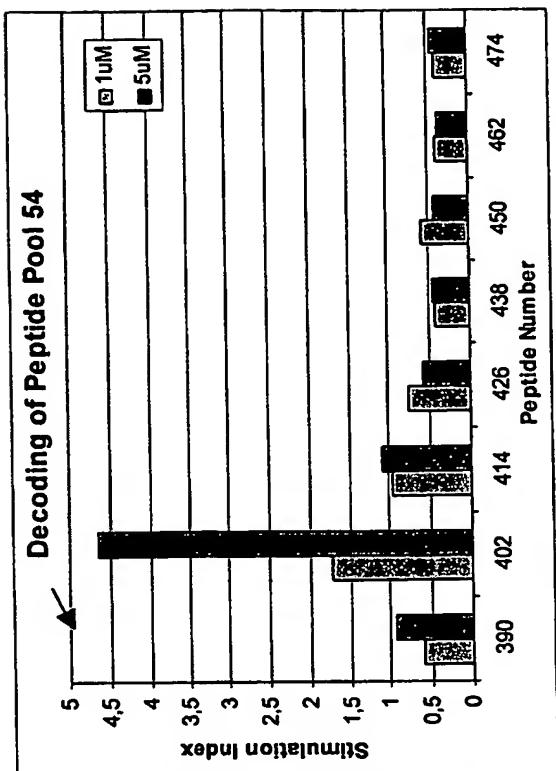
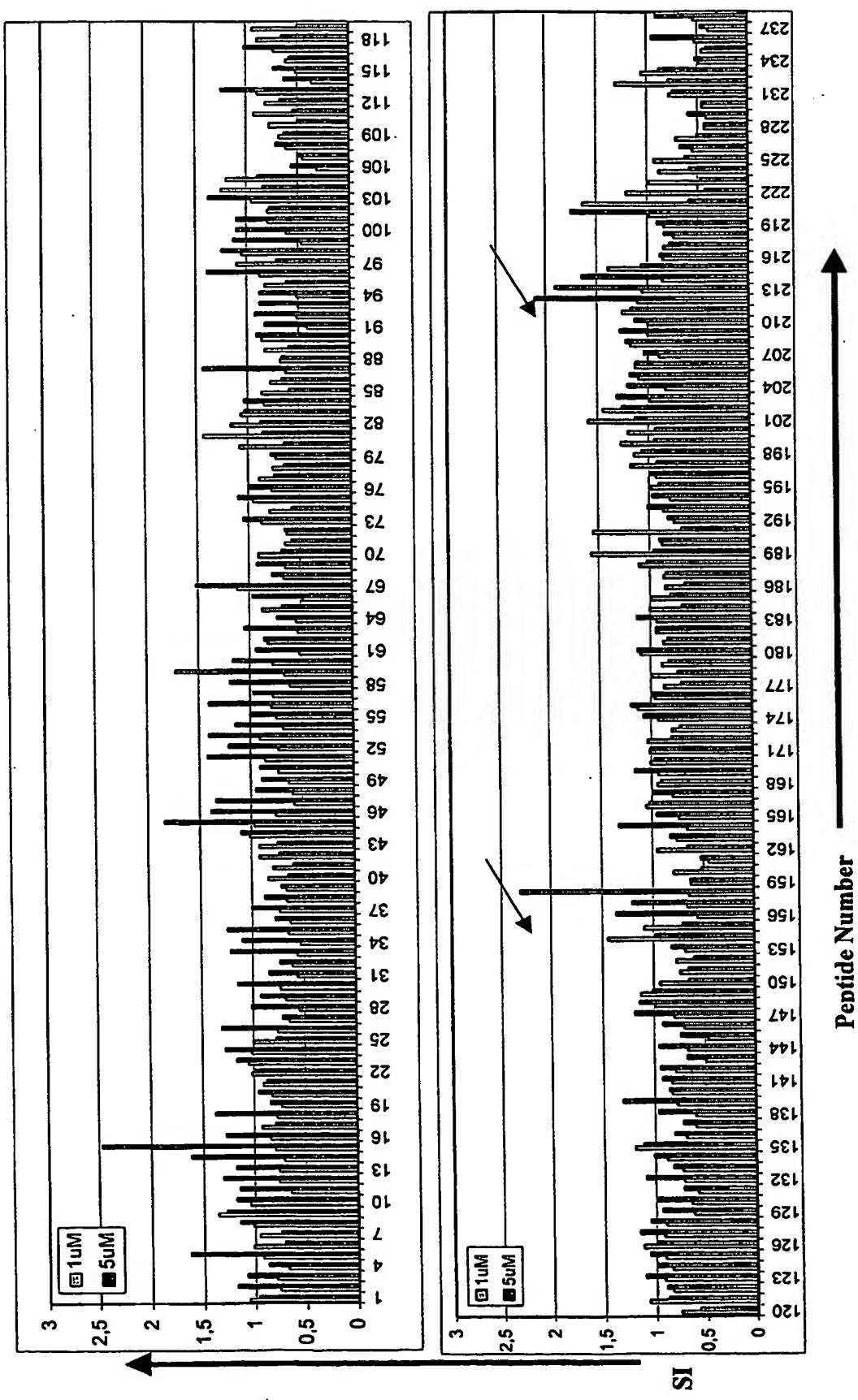


FIGURE 4

FIGURE 5A



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FIGURE 5B

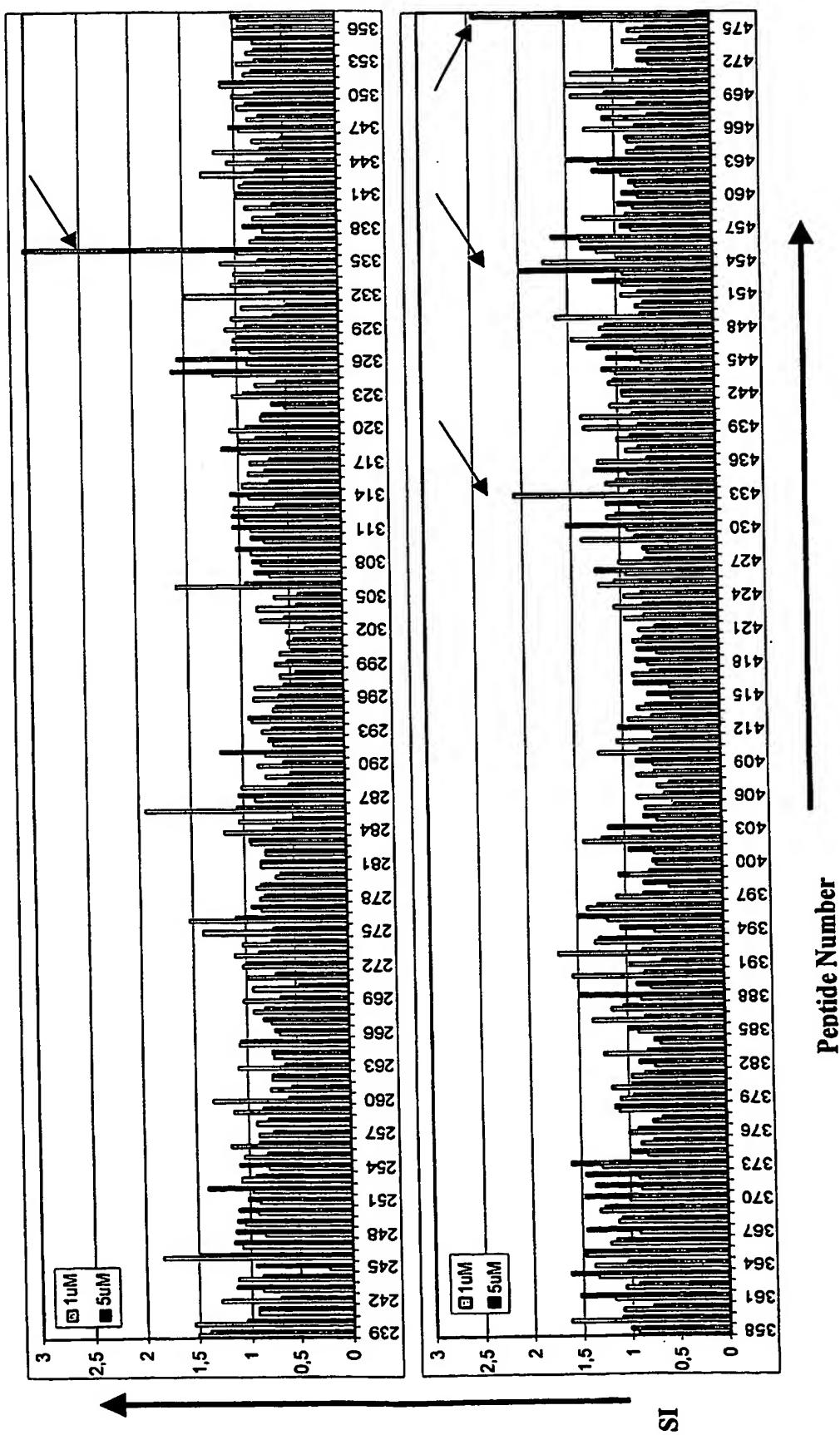
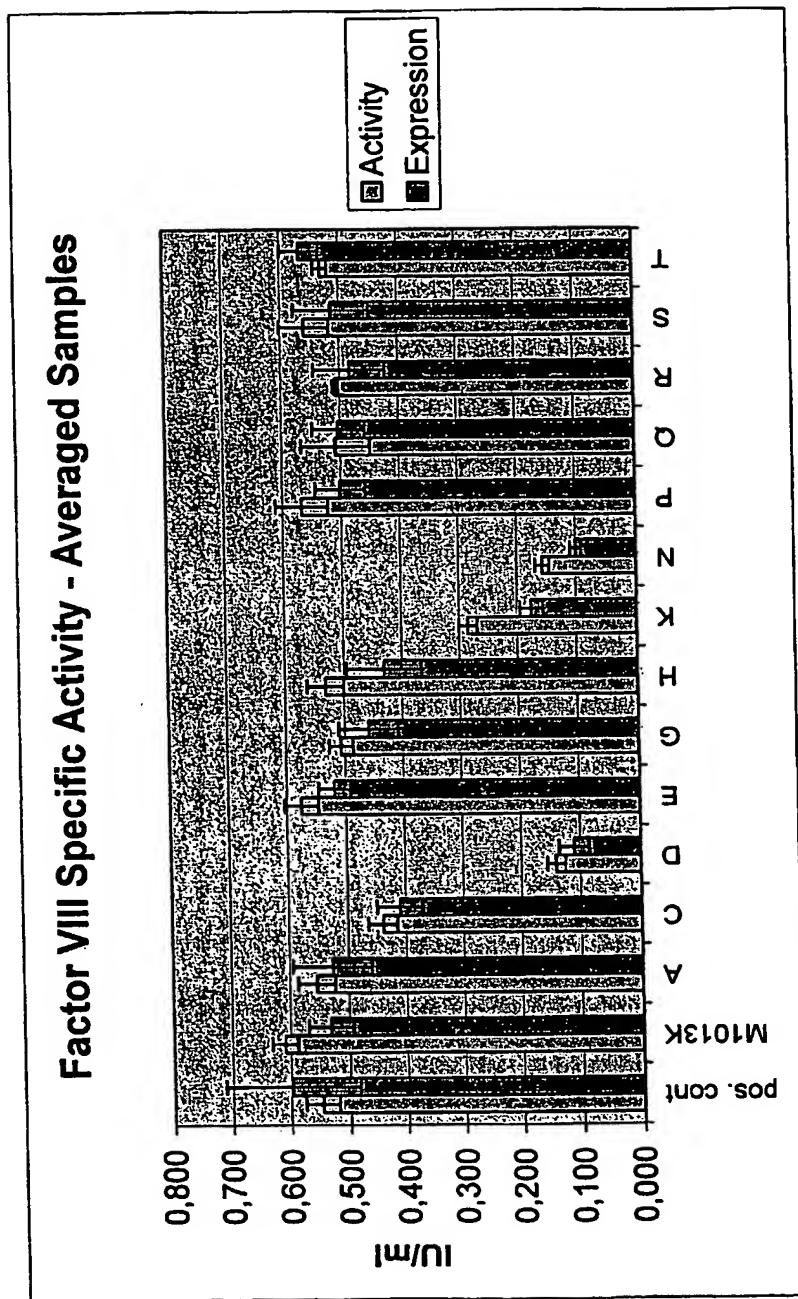
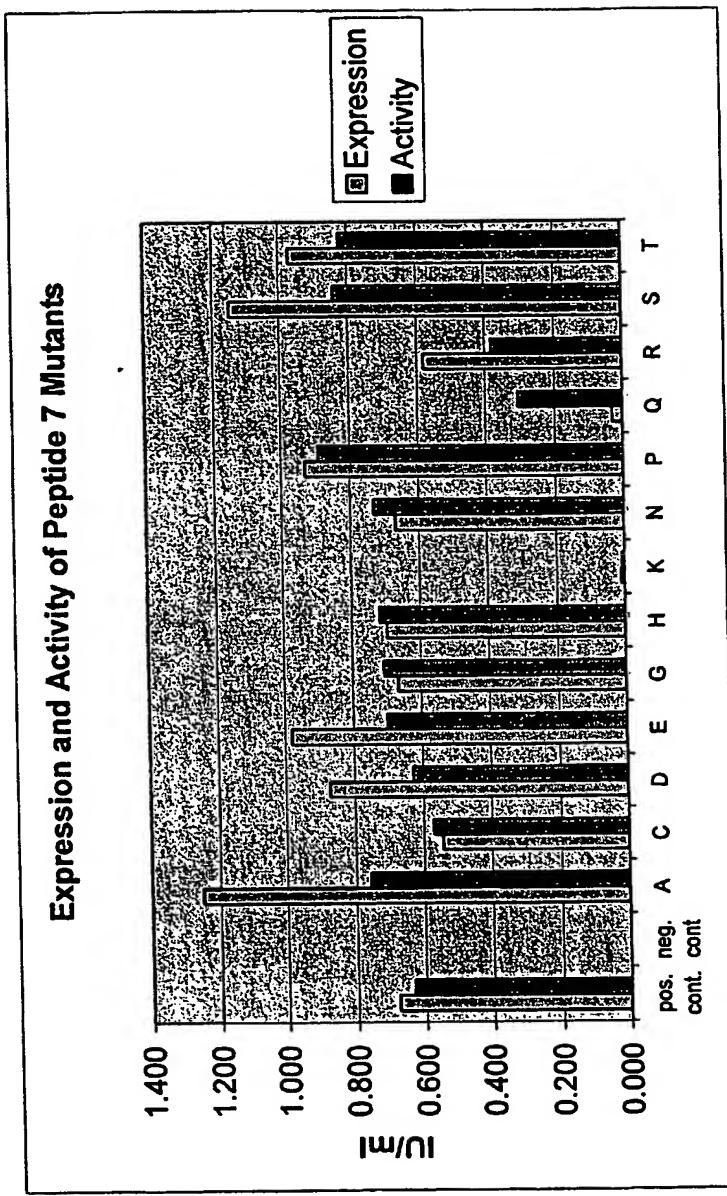


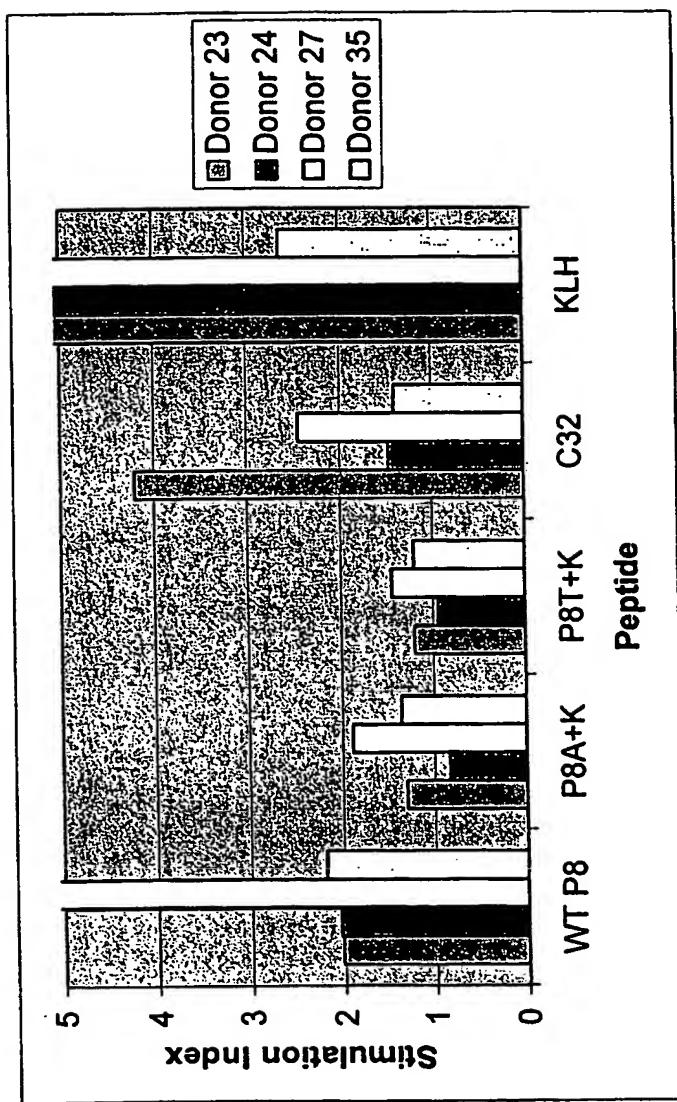
FIGURE 6



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FIGURE 7





MHC Allotype	
Donor #	DRB1*04, DRB1*13, DRB3, DRB4*01
23	DRB1*04, DRB1*13, DRB3, DRB4*01
24	DRB1*03, DRB1*04, DRB3, DRB4*01
27	DRB1*03, DRB1*15, DRB3, DRB5
35	DRB1*04, DRB1*08, DRB4*01

Peptide	Sequence	Origin
WT P8	CNIQMEDPTFKENYR	FVIII immunogenic peptide P8; residues 1009-1023
P8K+A	CNAQKEDPTFKENYR	Peptide P8 with substitutions I <sub>101</sub> A + M <sub>103</sub> K
P8K+T	CNTQKEDPTFKENYR	Peptide P8 with substitutions I <sub>101</sub> T + M <sub>103</sub> K
C32	PKYVQQNTLKLAT	Control peptide; influenza haemagglutinin residues 307-319
KLH	Whole protein	Control protein; keyhole limpet haemocyanin

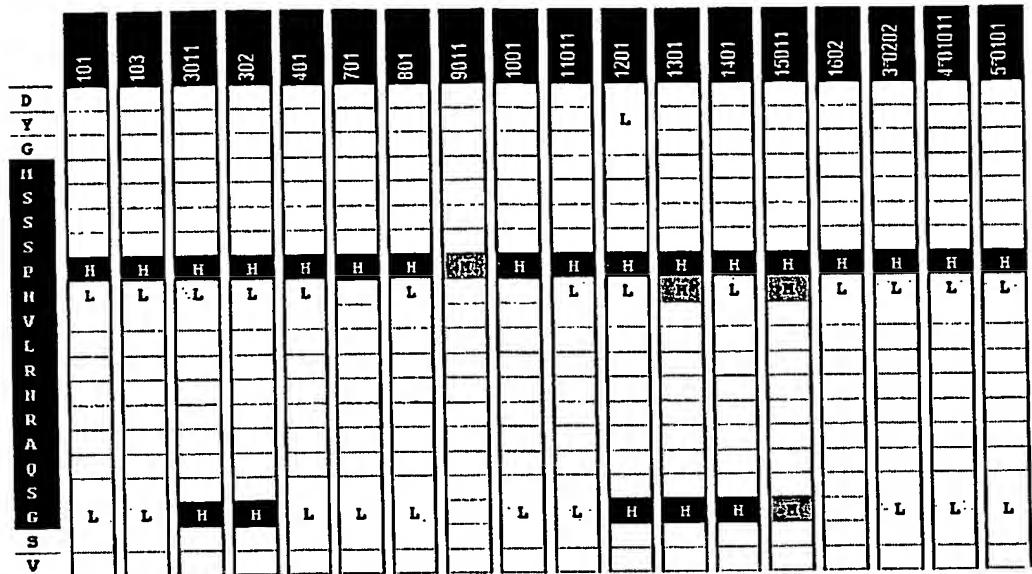
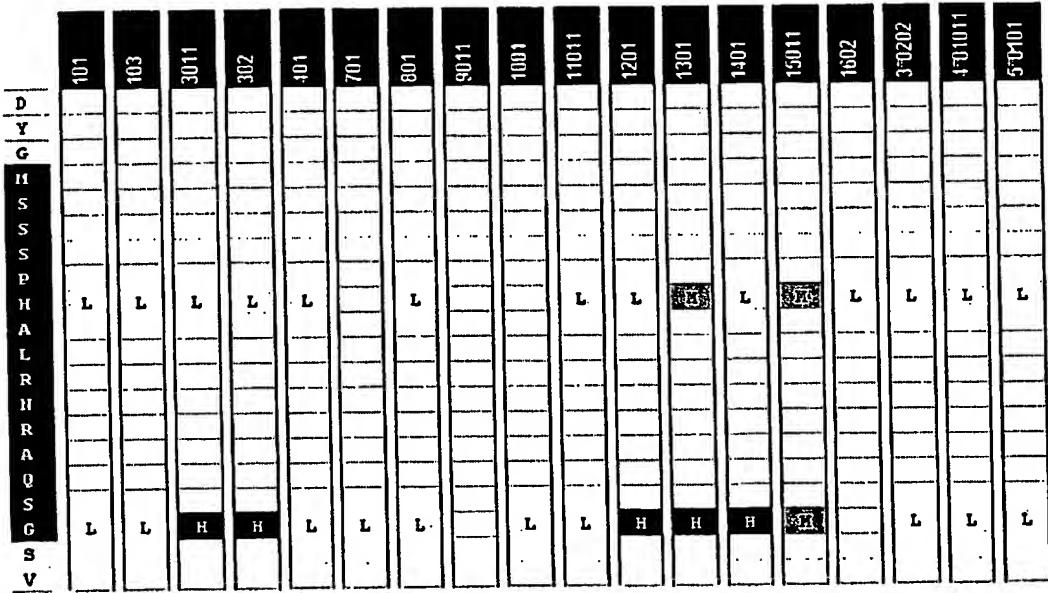
FIGURE 8

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## FIGURE 9

## A) Factor VIII WT (Peptide 7)

B) Factor VIII V<sub>823A</sub>

High affinity MHC ligand; score > 1,000,000

Medium affinity MHC ligand; score 750,001 - 1,000,000

Low affinity MHC ligand; score 500,000 - 750,000

## FIGURE 10

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1	25	50	75
ATRRYYLGAVELSWDYMQS	DLGELPV	DARFPPRVPKSFP	NTSVYKKLF
100	125	150	150
IQAEVYDTVVITLKNMASHPV	SHLHAVGVSYWKASEGA	EYDDQTSQREKED	DKVFPGGSH
175	200	225	225
PLCLTYSYLSHV	DLVKDLNSGLIGALLV	CREGSLAKEKTQTLHK	FILLFAV
250	275	300	300
RAWPKMHTVNGYVNRS	LPGLIGCHRKS	VWHIGMGT	PEVHSIFLEGHT
325	350	375	375
MDLGQFLLFC	HISSHQHDGMEAYV	KVDSCPEEPQLRM	KNNEEAEDYDDD
400	425	450	450
KKHPKTWVHYIAAEEEDW	DYAPLVLAPDDRSYK	SQYLNNGPQRIGR	KVRFMAYTDET
475	500	525	525
PLLYGEVGDTLLIIFKNQ	ASRPYNIYPHG	ITDVRPLYSRRLPK	GVKHLKDFPILP
550	575	600	600
PRCLTRYSSFVNMERDL	ASGLIGPL	LICYKESVDQRGNQ	IMSDKRNVILFSV
625	650	675	675
VQLEDPEFQASNIMHS	SINGYVFD	SLQLSVCLHEVAYW	YILSIGAQTDF
700	725	750	750
ETVFMSENPG	WLGLCHNSDFRN	RGMTALLKVSSCD	KNTGDYYEDSY
775	800	825	825
RHQREITRTT	LQSDQEEIDYDDT	ISVEMK	KEFDIYDEDENQ
850	875	900	900
NRAQSGSVPQFKKVV	FQEFTDGSFTQ	PLYRGELNEHLG	LLGPYIRAEVEDN
925	950	975	975
DQRQGAEP	RKNFVKPNET	KTYFWKVQHH	MAPTKDEF
1000	1025	1050	1050
QTVQE	FALFFTIFDET	KSWYFTEN	MERNCRAPCN
1075	1100	1125	1125
LSMGSNENIHSI	FGHVF	TRKKEEYK	MALYNLYPGV
1150	1175	1200	1200
KCQTPLGMA	SHIRDFQITASG	QYQWAPKLARL	HYSGSINA
1225	1250	1275	1275
SLYISQFI	IMYSLDGKKW	QTYRGNSTG	TMVFFGNVDSSG
1300	1325	1350	1350
DLNSCSMPLG	MESKAISDA	QITASSYFTNM	FATWSPSKARL
1375	1400	1425	1425
TQGVKSLL	TSMYVKEFL	ISSSQDGH	QNGKVKV
1438			
RMEVLGCEAQDLY			

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